

LAKE: MILL PRIVILEGE L (VLMP SCW)
TOWN: T05 R01 NBPP
COUNTY: PENOBSCOT

MIDAS: 4704
TRUE BASIN: 1
SAMPLE STATION: 1

WHOLE LAKE INFORMATION

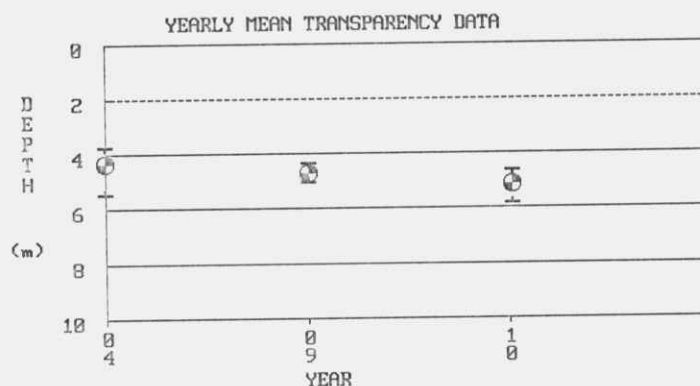
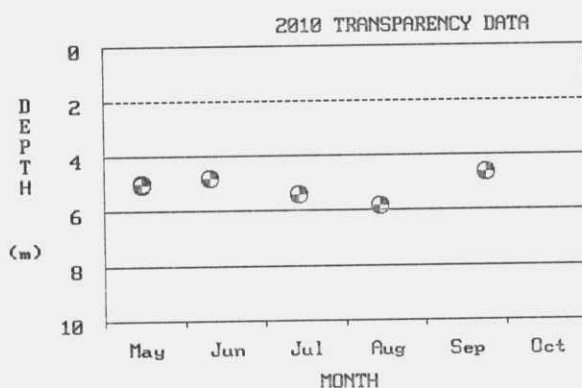
MAX. DEPTH: 8 m. (27 ft.)
MEAN DEPTH: 4 m. (14 ft.)
DELORME ATLAS #: 45
USGS QUAD: BOTTLE LAKE
IFW REGION F: Penobscot (Enfield)
IFW FISH. MANAGMENT: Warmwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 43.0 ha. (106.3 a.)
FLUSHING RATE: 4.46 flushes/yr.
VOLUME: 1566637.0 cu. m. (1271 ac.-ft.)
DIRECT DRAINAGE AREA: 14.05 sq. km. (5.42 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. MILL PRIVILEGE L has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN COLOR	MEAN pH	MEAN ALK	MEAN COND.	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES			
	(SPU)		(mg/l)	(uS)	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	EPI	PHOS	SEC	CHL
				/cm	CORE	GRAB	GRAB	GRAB								C	G		
2004	-	-	-	-	-	-	-	-	3.7	4.3	5.4	4	-	-	-	-	-	-	-
2009	40	6.13	8.8	22	11	-	-	-	4.3	4.7	5.0	5	2.3	3.7	4.9	-	-	-	-
2010	24	5.79	8.3	25	9	-	-	-	4.6	5.1	5.8	5	2.8	3.4	4.6	-	-	-	43
SUMMARY:	32	5.93	8.6	23	10	-	-	-	3.7	4.7	5.8	3	2.3	3.6	4.9	-	-	-	43

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE							
	08/07/04		08/12/09		08/13/10		09/23/10	
m	°C	ppm	°C	ppm	°C	ppm	°C	ppm
0.0	-	-	-	-	24.5	8.1	17.0	8.6
1.0	23.0	7.0	24.2	8.5	24.4	8.1	17.0	8.6
2.0	23.0	7.0	22.5	8.5	23.6	8.1	17.0	8.6
3.0	22.5	7.0	20.1	5.7	23.3	8.1	17.0	8.6
4.0	21.0	3.4	17.0	2.0	21.7	5.1	16.9	8.6

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DEPTH	SAMPLE DATE							
	08/07/04		08/12/09		08/13/10		09/23/10	
m	°C	ppm	°C	ppm	°C	ppm	°C	ppm
5.0	17.0	0.5	14.4	0.4	18.2	0.1	16.9	8.5
6.0	14.0	0.2	13.3	0.4	14.5	0.0	16.9	8.3
7.0	12.0	0.1	12.5	0.4	13.0	0.0	16.1	6.0
8.0	-	-	12.0	0.4	12.4	0.0	12.9	0.1